# PATENT COOPERATION TREATY

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# INTERNATIONAL SEARCH REPORT Bromberg & Sunstein, LLP

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220		
2960/132WO				
International application No.	International filing date (day/mont	nth/year) (Earliest) Priority Date (day/month/year)		
PCT/US2006/045172	6 23/11/2005			
Applicant				
CONFORMIS, INC.				
according to Article 18. A copy is being tra	nsmitted to the International Bureau	rching Authority and is transmitted to the applicant au.		
This international search report consists o  It is also accompanied by	a total of5she a copy of each prior art document of			
a translation of the of a translation with the b. With regard to any nuclear.  2. X Certain claims were four.  3. Unity of invention is lack.  4. With regard to the title, X the text is approved as sui	optication in the language in which international application into misshed for the purposes of international tide and/or amino acid sequence and unsearchable (See Box No. II) iring (see Box No III)	n it was filed  , which is the language  flonal search (Fules 12.3(a) and 23.1(b))  re disclosed in the international application, see Box No. I.		
5. With regard to the abstract,	ned, according to Rule 38,2(b), by t	this Authority as it appears in Box No. IV. The applicant attorial search report, submit comments to this Authority		
as selected by this		failed to suggest a figure		

# A. CLASSIFICATION OF SUBJECT MATTER INV. A61B17/88 A61F2/46

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A61F A61B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

X Further documents are listed in the continuation of Box C.

L	Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	Х	US 5 591 165 A (JACKSON ROGER P [US]) 7 January 1997 (1997-01-07)	1-10, 21-28, 53-55
١	A	abstract; figures 15a,15b	11,56
	х	WO 03/028566 A (STRYKER SPINE [FR]; SAINT MARTIN PIERRE HENRI [FR]; VIENNEY CECILE [FR] 10 April 2003 (2003-04-10) abstract: figures 3-6	1-10,21, 26-28, 53-55
	A		11,56
	Х	US 2005/119751 A1 (LAWSON KEVIN J [US]) 2 June 2005 (2005-06-02)	1-10, 21-28, 53-55
ľ	A		11,56
1		,	

Special categories of clied documents:  A document defining the general state of the air which is not considered to be of particular relevance.  See sent of the production of the particular relevance of the particular relevance of the particular relevance of the particular relevance of the particular particular of the particular of the particular of another distallor of the page of the particular of the	17 Inter document published after the international filing date or plorely date and not in conflict with the application but principly date and not in conflict with the application but invention in the properties of the prope
Date of the actual completion of the informational search  11 April 2007	Date of mailing of the international search report  19/04/2007
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentisan 2 Nt. – 2200 HV Histwijk Tot. (+31-70) 340-32040, Tx. 31 651 epo nl, Faxc. (+31-70) 340-32016	Authorized officer  Macaire, Stéphane

X See patent family annex

2

	ation, where appropriate, of the relevant passages	Relevant to claim No.
X FR 2 795 945 A 12 January 2001 abstract; figur	(SCIENT X [FR]) (2001-01-12) res 4-7	1-28, 53-58
abstract; figur	res 4-7  Al (STAD SHAWN D [US] ET 06 (2006-04-06)	1,5

International application No. PCT/US2006/045172

# INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)	
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:	
Claims Nos.:     29–52     because they relate to subject matter not required to be searched by this Authority, namely:	
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery ${}^{\circ}$	
Claims Nos.:     because they retale to parts of the international Application that do not comply with the prescribed requirements to such an oxident that no meaningful international Search can be carried out, specifically:	
Claims Nos.:  because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)	
This International Searching Authority found multiple inventions in this international application, as follows:	
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.	
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not Invite payment of any additional fee.	
As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos	
No required additional search fees were finely paid by the applicant. Consequently, this international Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.	

FR 2830433 AI 11-04-20 US 2005119751 AI 02-06-2005 NONE FR 2795945 AI 12-01-2001 AU 6295700 A 30-01-20 EP 1194087 AI 10-04-20 US 6964687 BI 15-11-20 US 6964687 BI 15-11-20 US 2005125029 AI 09-06-20						101,002000,010172		
W0 03028566 A 10-04-2003 EP 1458298 A1 22-09-20 FR 2830433 A1 11-04-20 US 2005119751 A1 02-06-2005 NONE  FR 2795945 A1 12-01-2001 AU 6295700 A 30-01-20 EP 1194087 A1 10-04-20 W0 0103615 A1 18-01-20 US 6964687 B1 15-11-20 US 2005125029 A1 09-06-20								
FR 2830433 A1 11-04-20 US 2005119751 A1 02-06-2005 NONE  FR 2795945 A1 12-01-2001 AU 6295700 A 30-01-20 EP 1194087 A1 10-04-20 WO 0103615 A1 18-01-20 US 6964687 B1 15-11-20 US 2005125029 A1 09-06-20	US	5591165	Α	07-01-1997	NONE			
FR 2795945 A1 12-01-2001 AU 6295700 A 30-01-2001 FP 1194087 A1 10-04-2001 FP 1194087 A1 10-04-2001 FP 1194087 B1 15-11-2001 FP 1194087 B1 119	WO	03028566	A	10-04-2003	FR 2830	0433 A1	22-09-2004 11-04-2003 09-12-2004	
EP 1194087 A1 10-04-20 W0 0103615 A1 18-01-20 US 6964687 B1 15-11-20 US 2005125029 A1 09-06-20	US	2005119751	A1	02-06-2005	NONE			
US 2006074432 A1 06-04-2006 NONE	FR	2795945	A1	12-01-2001	EP 1194 WO 0103 US 6964	1087 A1 3615 A1 1687 B1	30-01-2001 10-04-2002 18-01-2001 15-11-2005 09-06-2005	
	US	2006074432	A1	06-04-2006	NONE			

From the INTERNATIONAL SEARCHING AUTHORITY PCT To A TO THE TO THE TOTAL TOTAL TO THE TO

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Bule 43hie 1)

	(1 OT Hale 400/3.1)
Date of mailing	The second secon
(day/month/year)	see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference

FOR FURTHER ACTION

see form PCT/ISA/220 International application No. PCT/JS2006/045172

See paragraph 2 below International filing date (day/month/year) 22.11.2006

Priority date (day/month/year) 23.11.2005

International Patent Classification (IPC) or both national classification and IPC

INV. A61B17/88 A61F2/46

Applicant CONFORMIS, INC.

- This opinion contains indications relating to the following items:
  - Box No. I Basis of the opinion
  - ☐ Box No. II Priority
  - Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
  - ☐ Box No. IV Lack of unity of invention
  - Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial
  - applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited
  - □ Box No. VII Certain defects in the international application
  - ☐ Box No. VIII Certain observations on the international application

#### 2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

Date of completion of this opinion

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European Patent Office - P.B. 5818 Patentlaage form PCT/ISA/210 Authorized Officer

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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2006/045172

_						
_	Bo	x No.	I Basis of the opinion			
1.	. With regard to the language, this opinion has been established on the basis of:					
	⊠	the	international application in the language in which it was filed			
		a tra	anslation of the international application into , which is the language of a translation furnished for the loses of international search (Rules 12.3(a) and 23.1 (b)).			
2.	Wit	h reg essa	ard to any nucleotide and/or amino acid sequence disclosed in the international application and ry to the claimed invention, this opinion has been established on the basis of:			
	a. t	ype c	of material:			
	1	□ a	a sequence listing			
	1	□ t	able(s) related to the sequence listing			
	b. fe	orma	t of material:			
	1		on paper			
	ı	□ i	n electronic form			
	c. ti	ime o	f filing/furnishing:			
	1		contained in the international application as filed.			
	1	□ f	iled together with the international application in electronic form.			
	-	□ f	urnished subsequently to this Authority for the purposes of search.			
3.		has	ddition, in the case that more than one version or copy of a sequence listing and/or table relating thereto been filed or furnished, the required statements that the information in the subsequent or additional es is identical to that in the application as filed or does not go beyond the application as filed, as repriate, were furnished.			
4.	Add	dition	al comments:			

	x No. III Non-establishment of opinion with regard to novelty, inventive step and industrial plicability
	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non rious), or to be industrially applicable have not been examined in respect of
	the entire international application
×	claims Nos. <u>29-52</u>
bed	cause:
	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international search (specify):
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed (specify):
×	no international search report has been established for the whole application or for said claims Nos. $\underline{29-52}$
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
	☐ furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	☐ furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13ter.1(a) or (b).
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

### 1. Statement

Novelty (N) Yes: Claims 5,13,15,16,24-25

No: Claims <u>1-4,6-12,14,17-23,26-28,53-58</u>

Inventive step (IS) Yes: Claims

No: Claims 1-28,53-58

Industrial applicability (IA) Yes: Claims 1-28,53-58

No: Claims

### 2. Citations and explanations

see separate sheet

### Re Item III.

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by surgery

Claims 29-52 refer to methods of grasping an implant. This action is only disclosed in combination with the insertion of the implant into the human body and forms part of a method for treatment of the human or animal body by surgery.

Therefore no search has been performed for claims 29-52 (Article 34(4)(a) PCT).

### Re Item V.

- 1 Reference is made to the following documents:
  - D1: US 5 591 165 A (JACKSON ROGER P [US]) 7 January 1997 (1997-01-07)
  - D2: FR 2 795 945 A1 (SCIENT X [FR]) 12 January 2001 (2001-01-12)
- 2 INDEPENDENT CLAIMS 1, 11, 21, 53 and 56
- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 discloses (the references in parentheses applying to this document):
  - A device for grasping an implant (figs. 15a, 15b), the implant for use in a joint and having a first and second surface (fig. 16), at least one of the first and seconds surfaces being non-planar, the grasper device comprising:
  - a first grasping element (72) including a first grasping surface substantially conforming to the first surface of the implant:
  - a second grasping element (69) including a second grasping surface substantially conforming to the second surface of the implant:
  - wherein at least one of the first grasping element and the second grasping element can be moved to grasp the implant, such that the first grasping surface contacts the first surface of the implant and the second grasping surface contacts the second surface of the implant (col. 15. I. 14-25).
- 2.2 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 11 is not new in the sense of Article 33(2) PCT. Document D2 discloses (the references in parentheses applying to this

### document):

A surgical instrument (fig. 4) for grasping an implant having a first and second surface, the implant for use in a joint (intervertebral joint), at least one of the first and seconds surfaces (2, 20) being non-planar (fig. 1), the surgical instrument comprising:

- a first grasping element (16, 21);
- a second grasping element (16, 21);

wherein at least one of the first grasping element and the second grasping element can be moved to grasp the implant such that the first grasping element contacts the first surface of the implant and the second grasping element contacts the second surface of the implant, and wherein at least one of the first grasping element and the second grasping element is made of a pliable material (p. 7, 1. 9-14).

2.3 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 21 is not new in the sense of Article 33(2) PCT. Document D1 discloses:

An implant system comprising:

an implant (fig. 15) having first and second surfaces facing in substantially opposite directions, the first surface including a first indentation; and

an implant grasper (figs. 15a, 15b) for gripping the implant, the implant grasper including a first grasping element and a second grasping element;

wherein the first indentation (73) has peripheral walls that prevent rotation of the implant when the first grasping element (77) is received by the first indentation and the second grasping element of the implant grasper contacts the second surface to grasp the implant.

- 2.4 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 53 is not new in the sense of Article 33(2) PCT. Document D1 discloses a set comprising the grasping device according to claim 1 and the implant (fig. 16).
- 2.5 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 56 is not new in the sense of Article 33(2) PCT. Document D2 discloses a set comprising the surgical instrument according to claim 11 and the implant (fig. 1).

DEPENDENT CLAIMS 2-10, 12-20, 22-28, 54, 55, 57, 58 Dependent claims 2-10, 12-20, 22-28, 54, 55, 57, 58 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).